PATENT

450101-03169

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: KATO, et al.

Filed.:   Filed Concurrently Herewith

Title of Invention: INFORMATION PROCESSING METHOD AND
                              APPARATUS, PROGRAM AND RECORDING MEDIUM

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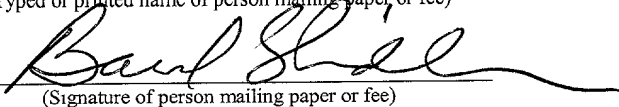
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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231

Sir:

> Before the issuance of the first Office Action, please amend the above-identified

application as follows:

IN THE CLAIMS:

> Please cancel claims 1-11 and add the following new claims 28-39:

28.   An information processing apparatus for recording AV stream data on a recording

medium, comprising:

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a controller for generating a first table describing the relation of correspondence between presentation time stamp and an address in said AV stream data of a corresponding access unit, or a second table describing the relation of correspondence between arrival time stamp derived from the arrival time point of a transport packet and an address in said AV stream data of a corresponding transport packet; and

a recorder for recording one of the first and second tables, as selected depending on a recording method, on said recording medium along with said AV stream data.

29. The information processing apparatus according to claim 28 wherein

said first table is EP_map; and wherein

said second table is TU_map.

30. The information processing apparatus according to claim 28 wherein said controller selects said second table in case of non-cognizant recording.

31. The information processing apparatus according to claim 28 wherein said controller selects said first table in case of self encoding recording.

32. The information processing apparatus according to claim 28 wherein said controller selects said first table in case of cognizant recording.

33. The information processing apparatus according to claim 28 wherein said controller generates the identification information indicating which of said first and second tables have been recorded; said recorder memorizing said identification information.

34. The information processing apparatus according to claim 33 wherein said controller manages control so that, if said first table is recorded along with said AV stream data, said reproduction specifying information expresses the time information of the reproduction domain of said AV stream data on the presentation time basis, and so that, if said second table is recorded along with said AV stream data, said reproduction specifying information expresses the time information of the reproduction domain of said AV stream data on the arrival time basis.

35. An information processing method for recording AV stream data on a recording medium, comprising:

a generating step of generating a first table describing the relation of correspondence between presentation time stamp and an address in said AV stream data of a corresponding access unit, or a second table describing the relation of correspondence between arrival time stamp derived from the arrival time point of a transport packet and an address in said AV stream data of a corresponding transport packet; and

a recording step of recording one of the first and second tables, as selected depending on a recording method, on said recording medium along with said AV stream data.

36. A recording medium having recorded thereon a computer-readable program for an information processing apparatus recording AV stream data on a recording medium, said program including

a step of generating a first table describing the relation of correspondence between presentation time stamp and an address in said AV stream data of a corresponding access unit, or a second table describing the relation of correspondence between arrival time stamp derived from the arrival time point of a transport packet and an address in said AV stream data of a corresponding transport packet; and

a recording step of recording one of the first and second tables, as selected depending on a recording method, on said recording medium along with said AV stream data.

37. A program for having a computer, controlling an information processing apparatus recording AV stream data on a recording medium, execute

a step of generating a first table describing the relation of correspondence between presentation time stamp and an address in said AV stream data of a corresponding access unit, or a second table describing the relation of correspondence between arrival time stamp derived from the arrival time point of a transport packet and an address in said AV stream data of a corresponding transport packet; and

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a recording step of recording one of the first and second tables, as selected depending on a recording method, on said recording medium along with said AV stream data.

38. An information processing apparatus for reproducing AV stream data from a recording medium, comprising:

a reproducing unit for reproducing one of a first table describing the relation of correspondence between presentation time stamp and an address in said AV stream data of a corresponding access unit and a second table describing the relation of correspondence between arrival time stamp derived from the arrival time point of a transport packet and an address in said AV stream data of a corresponding transport packet, from said recording medium, which has said first table or said second table recorded thereon depending on a recording method; and

a control unit for controlling the outputting of said AV stream data based on the reproduced table.

REMARKS

Claims 1-11 have been cancelled and are replaced by new claims 28-38 to reflect the amendments to the claims of the International application made under PCT Article 19. The filing fee has been calculated based upon these new claims.

Respectfully submitted,

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4